

I claim:

Sub 17
1. A device for removing portions of the outer layers of skin comprising:
a source of a vacuum, and
a tube with an abrasive treatment tip thereon, the tube being attached to the source of
5 vacuum so that a lumen through the tube has a reduced pressure therein which is less
than the ambient pressure surrounding the tube, the abrasive tip having at least one
opening therein for applying the reduced pressure within the tube to a skin surface.

2. The device of claim 1 wherein the source of vacuum is a
vacuum pump enclosed within a housing, the housing have means thereon for
10 monitoring and controlling the level of vacuum delivered.

3. The device of claim 1 further including means for varying the level of
reduced pressure applied through the treatment tip.

4. The device of claim 3 wherein the means for varying the level of
reduced pressure applied through the treatment tip is a valve mechanism mounted in
15 the treatment tube.

5. The device of claim 3 wherein the means for varying the level of
reduced pressure applied through the treatment tip is a valve mechanism in operative
connection to the source of vacuum.

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20 6. The device of claim 1 wherein the abrasive tip has diamond particles
attached thereto.

7. The device of claim 1 wherein the abrasive tip has a mechanically or
chemically created roughened surface.

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25 8. A tubular device for performing micro-abrasion of a skin surface
comprising a tubular device with a lumen there through, the tubular device having a
first end with an abrasive surface and means on a second end thereof for attachment to
a source of a vacuum.

10 9. The tubular device of claim 8 wherein the abrasive surface on the first
end comprises crystalline diamond pieces permanently secured to said first end.

11 10. The tubular device of claim 8 wherein the abrasive surface on the first
30 end comprises crystalline aluminum oxide pieces permanently secured to said first
end.